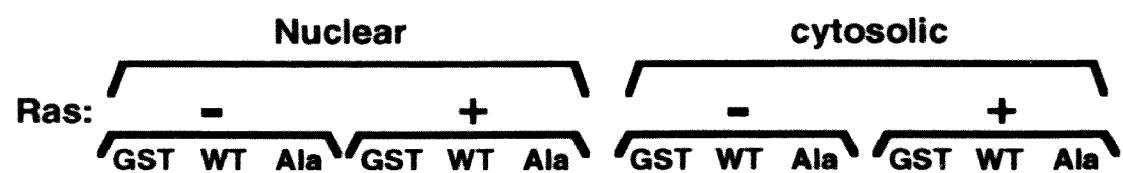


5804399



GSTcJun →

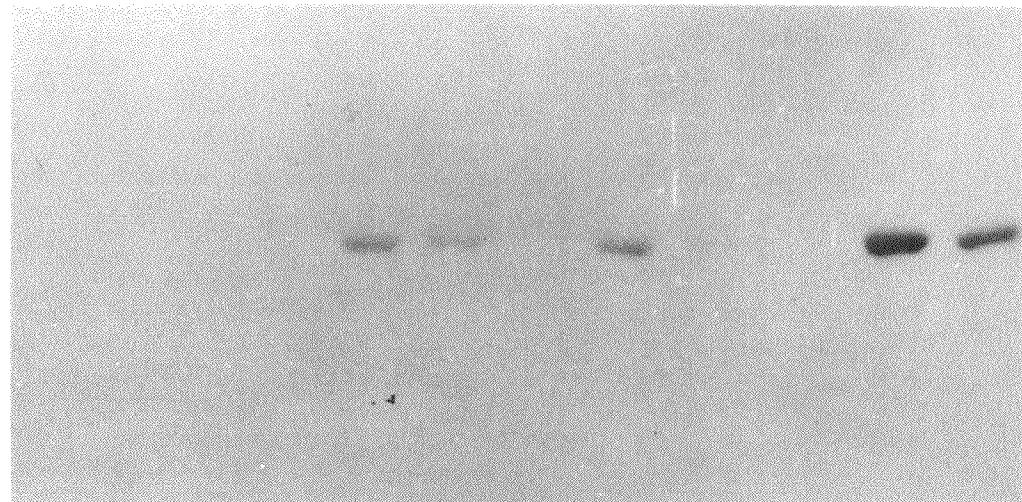


FIG. I

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

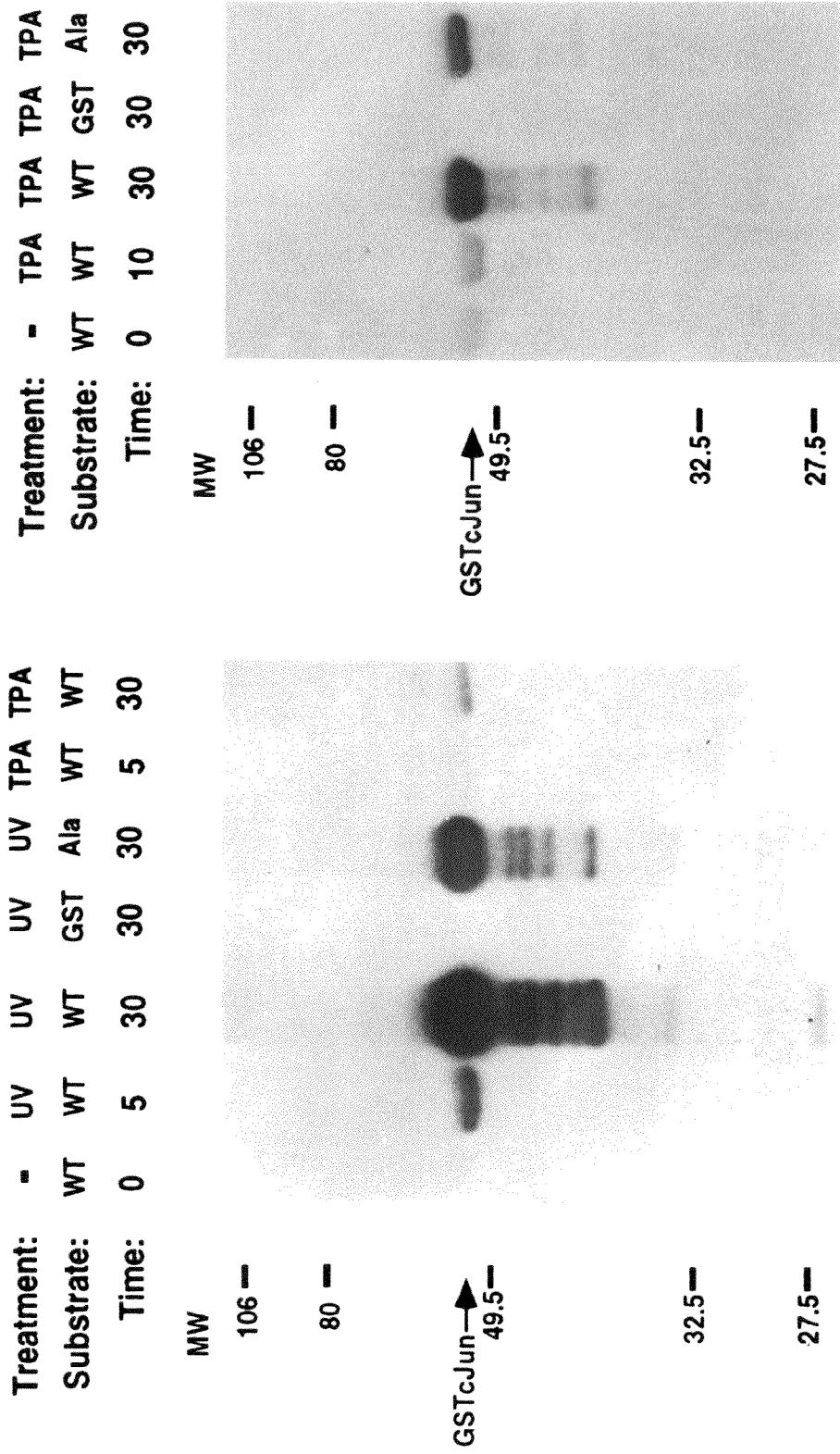


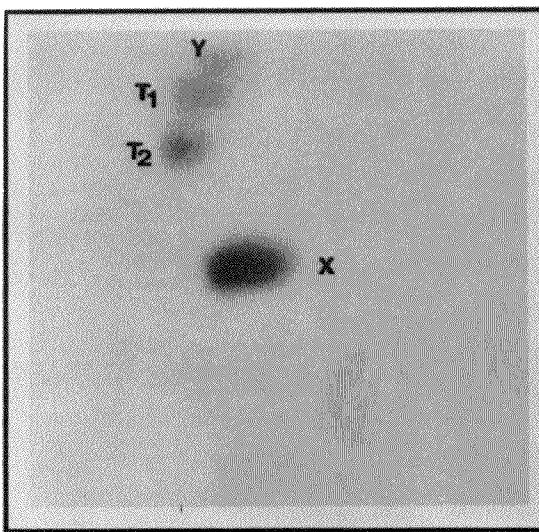
FIG. 2A

FIG. 2B

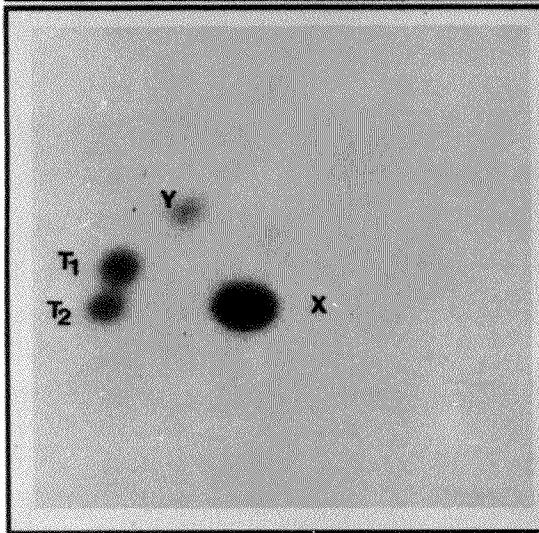
WT

A63/73

FR3T3 Ras



HeLa



Jurkat

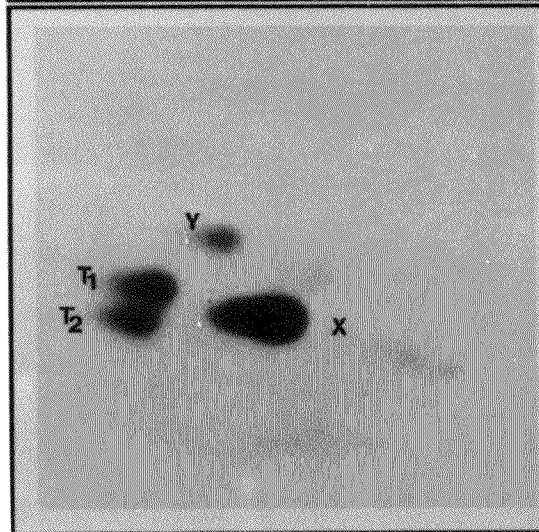
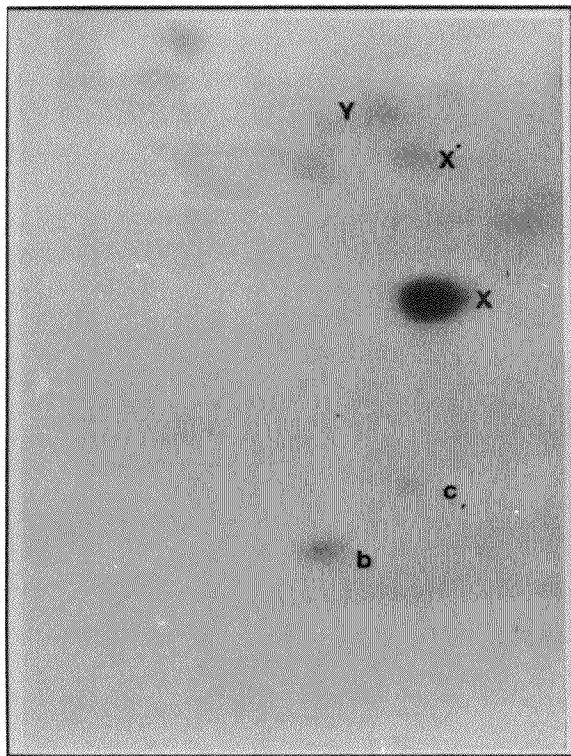


FIG. 3A

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

In Vitro



In Vivo

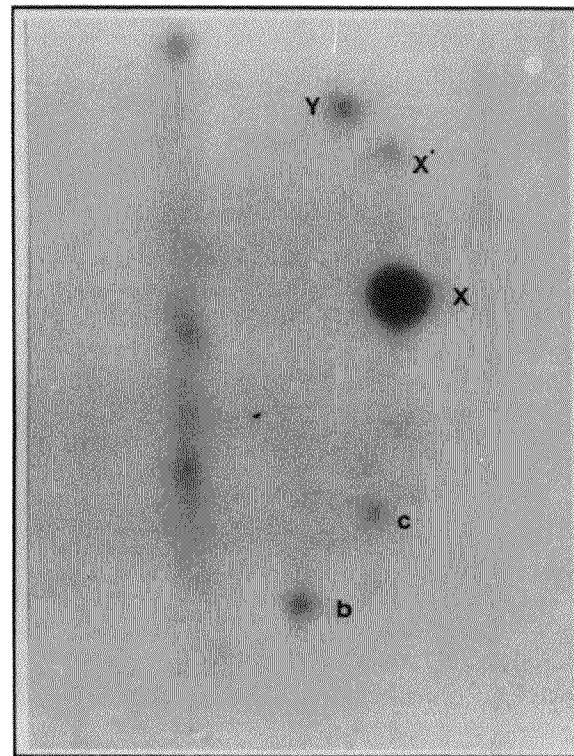


FIG. 3B

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

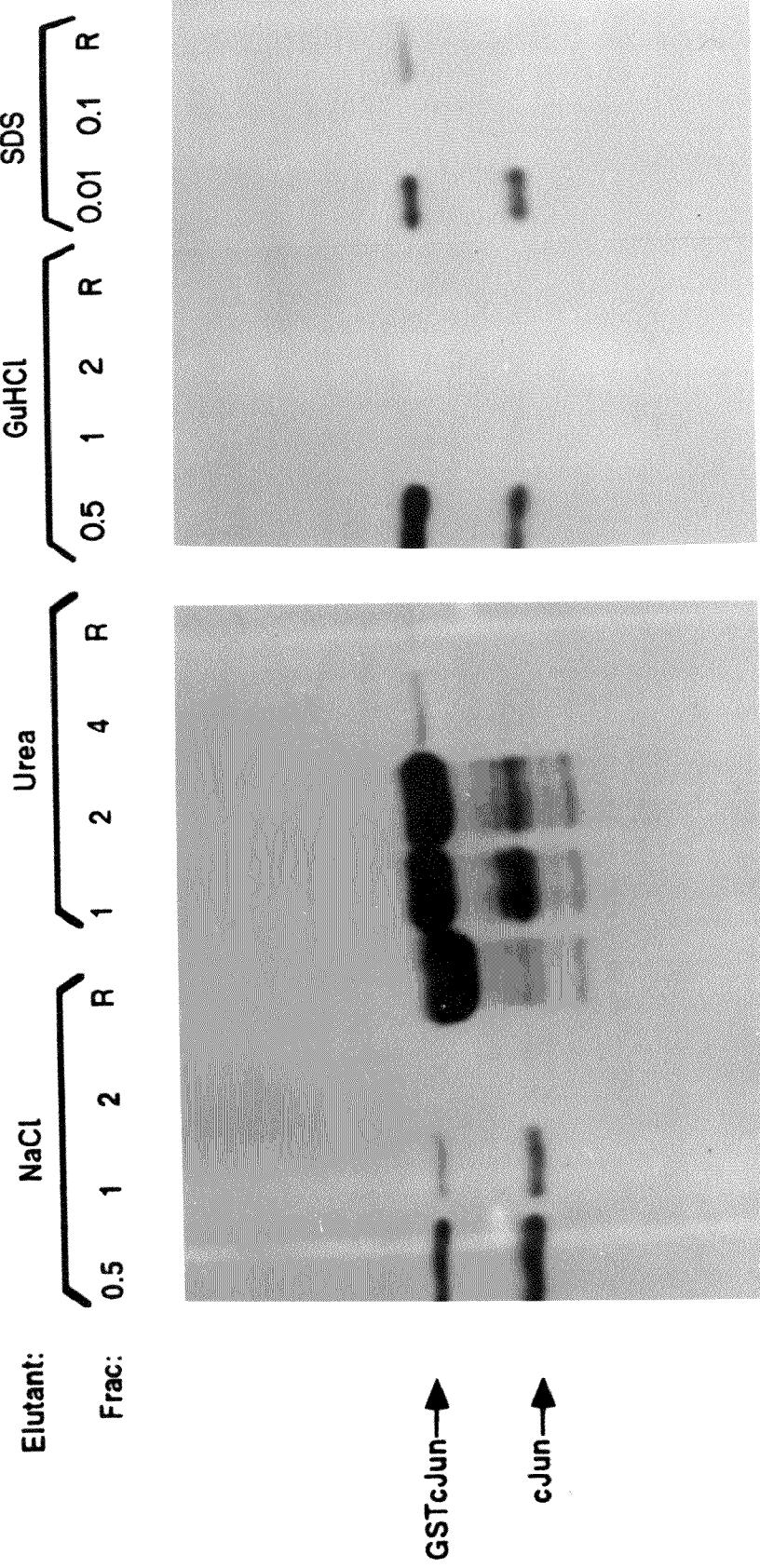


FIG. 4A

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

1 2 3 4 5

cJun →

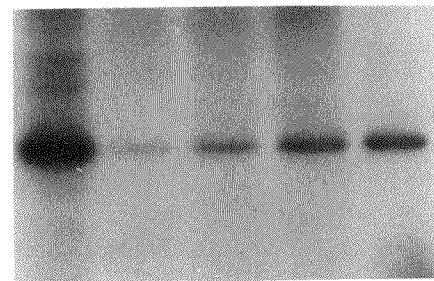


FIG. 4B

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

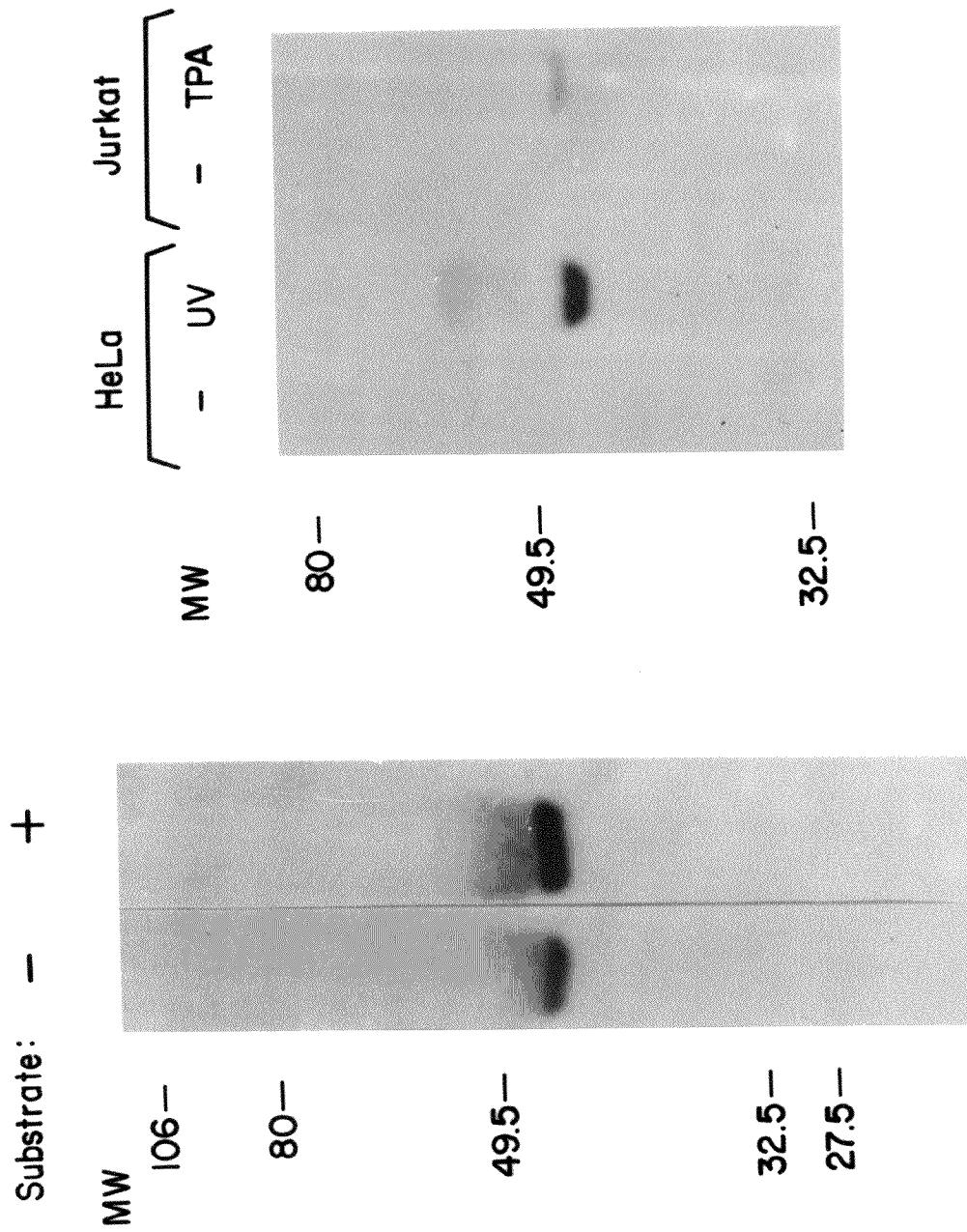


FIG. 5A

FIG. 5B

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

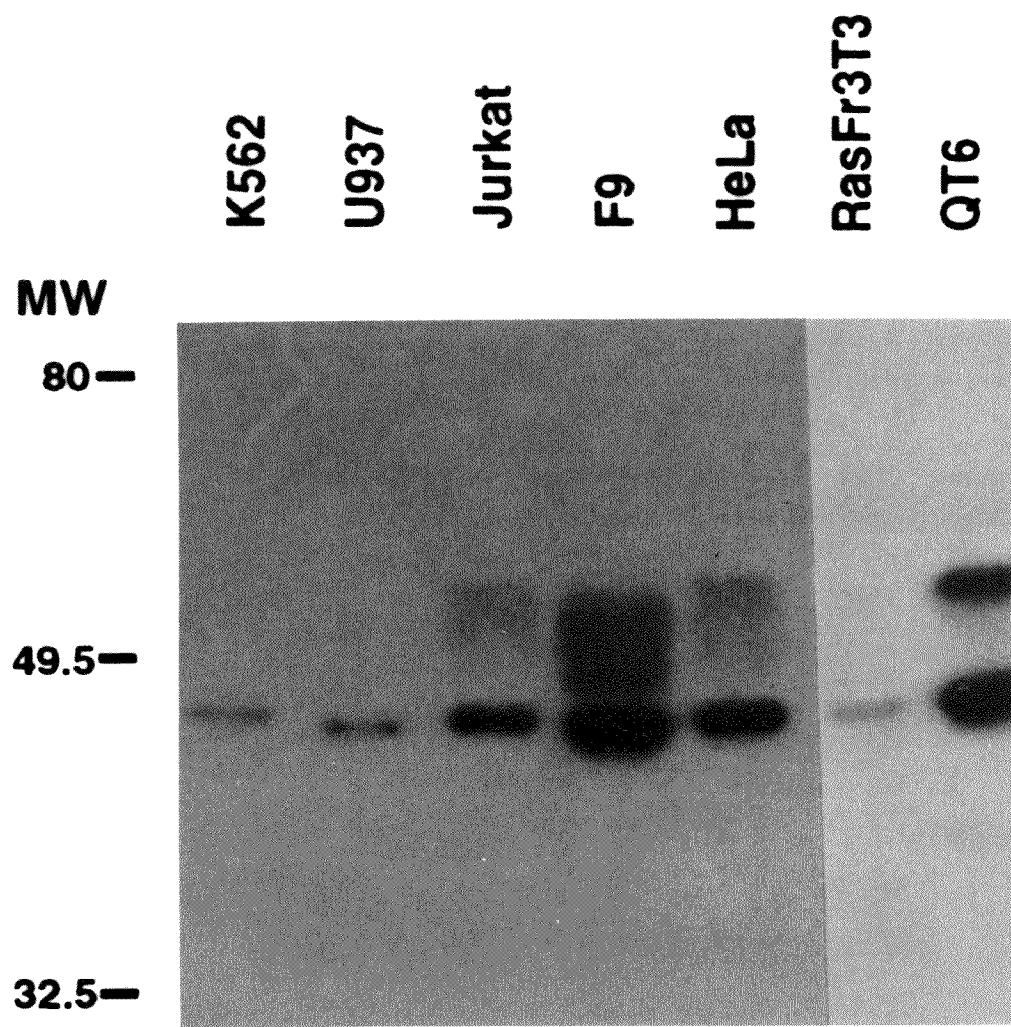
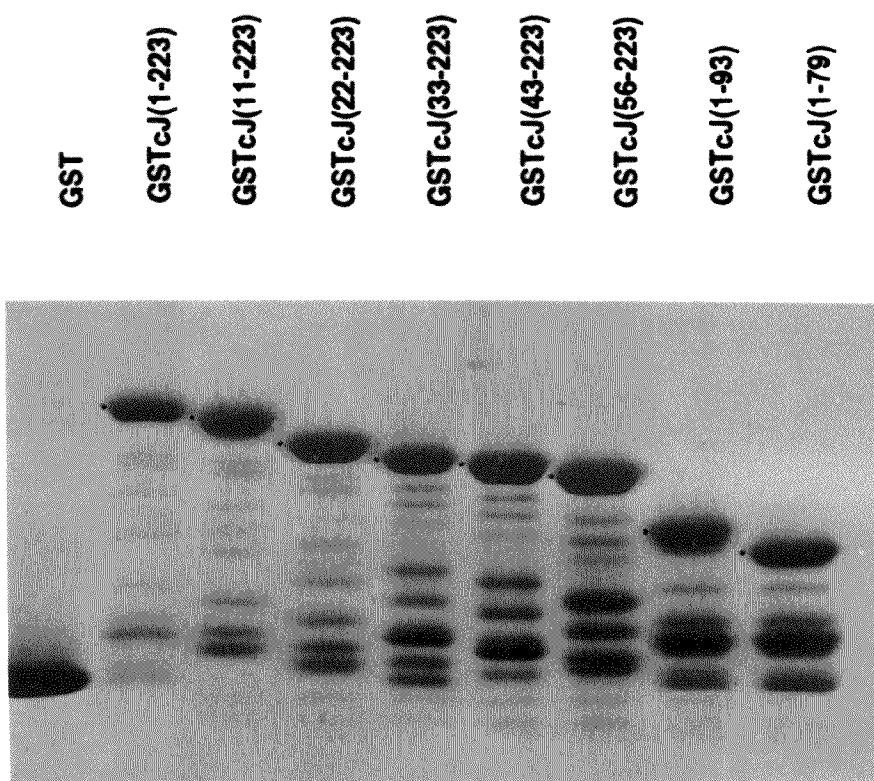


FIG. 5C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

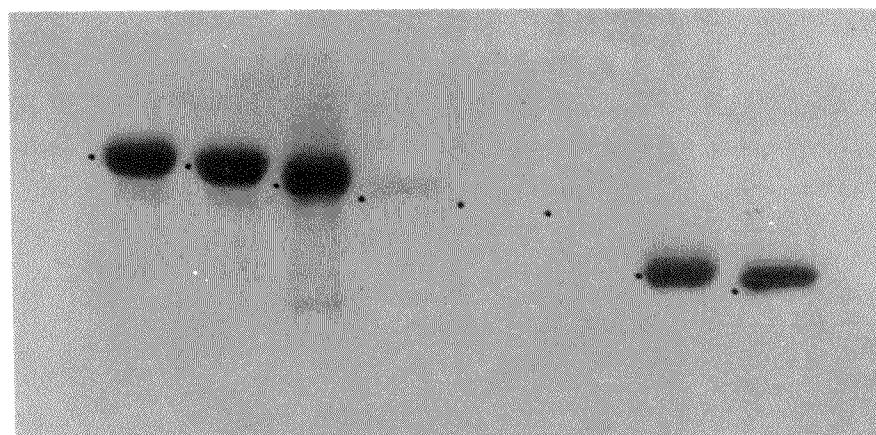
Protein Gel

FIG. 6A



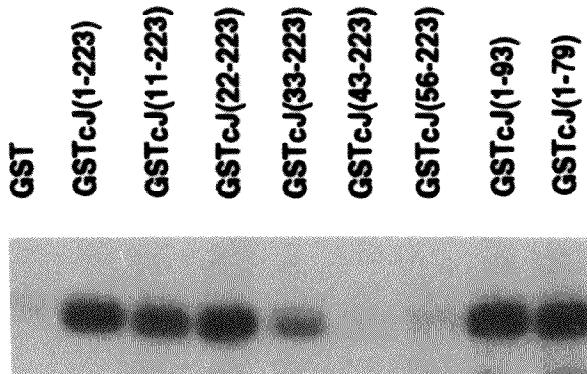
^{32}P -Immobilized Substrate

FIG. 6B



^{32}P -Exogenous Substrate

FIG. 6C



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

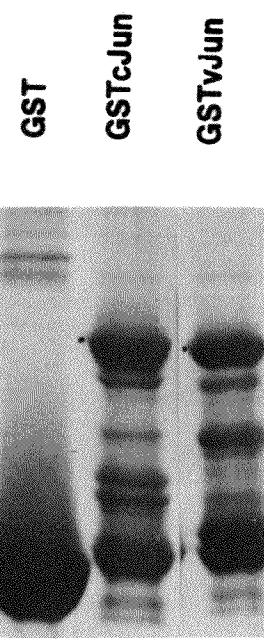


FIG. 7A

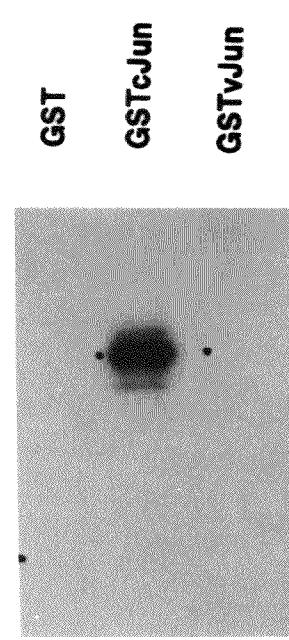


FIG. 7B

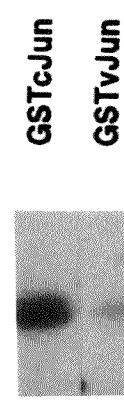


FIG. 7C

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

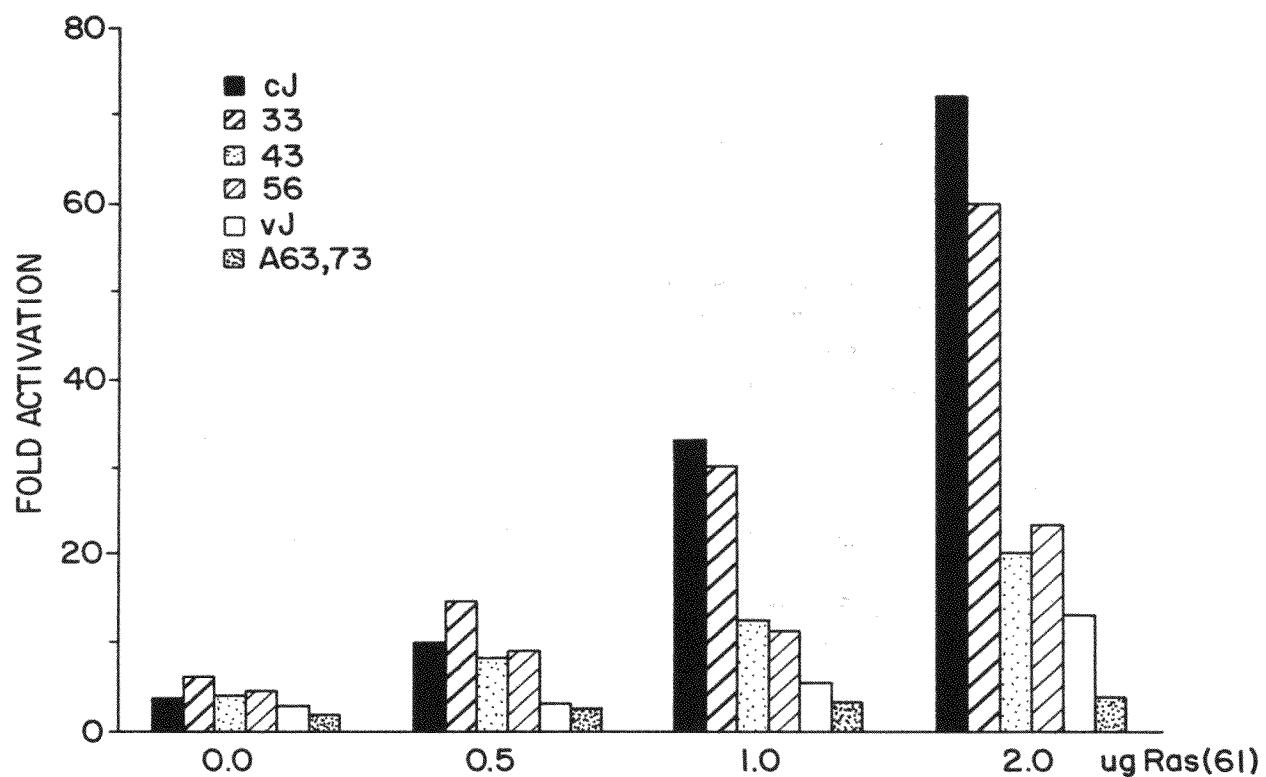


FIG. 8A

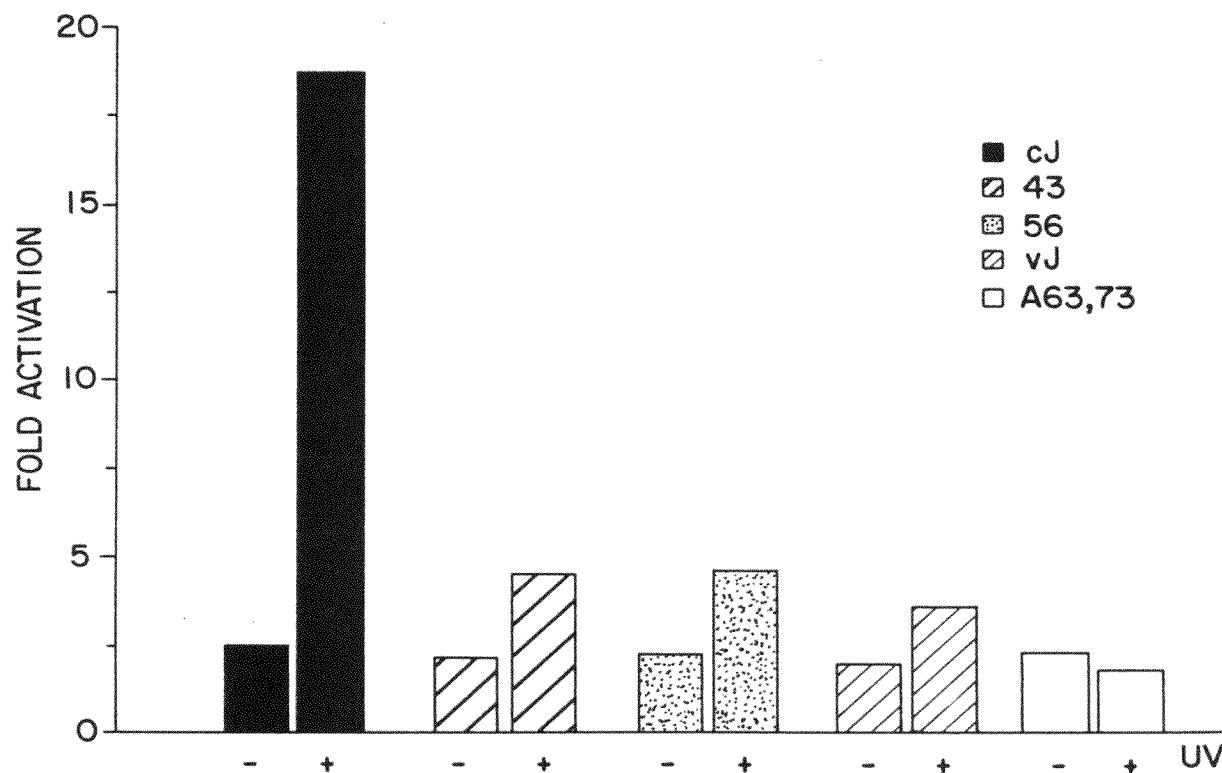


FIG. 8B

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

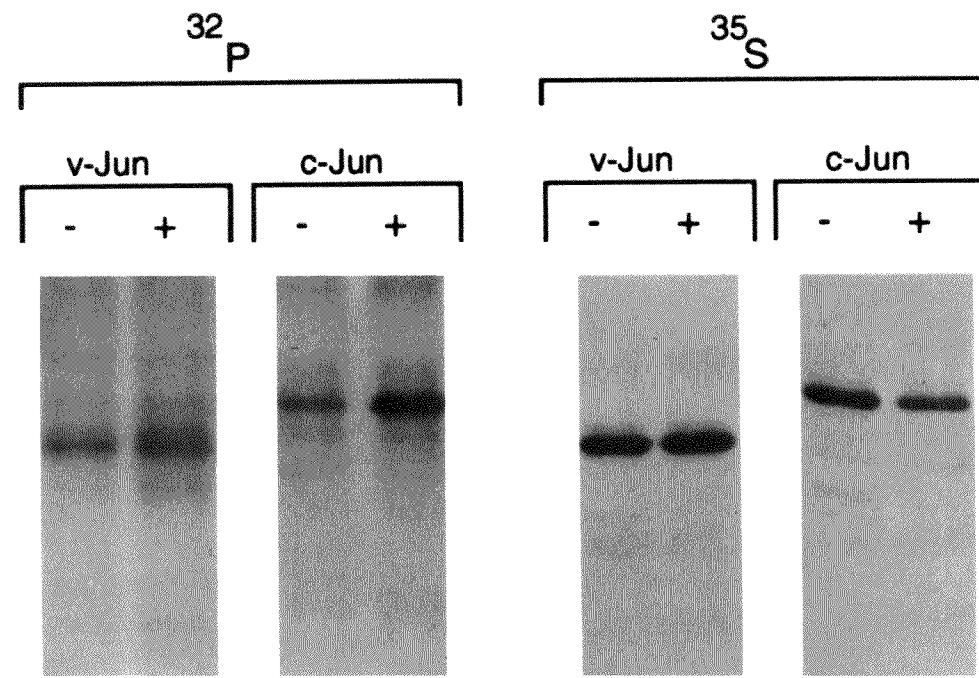


FIG. 9A

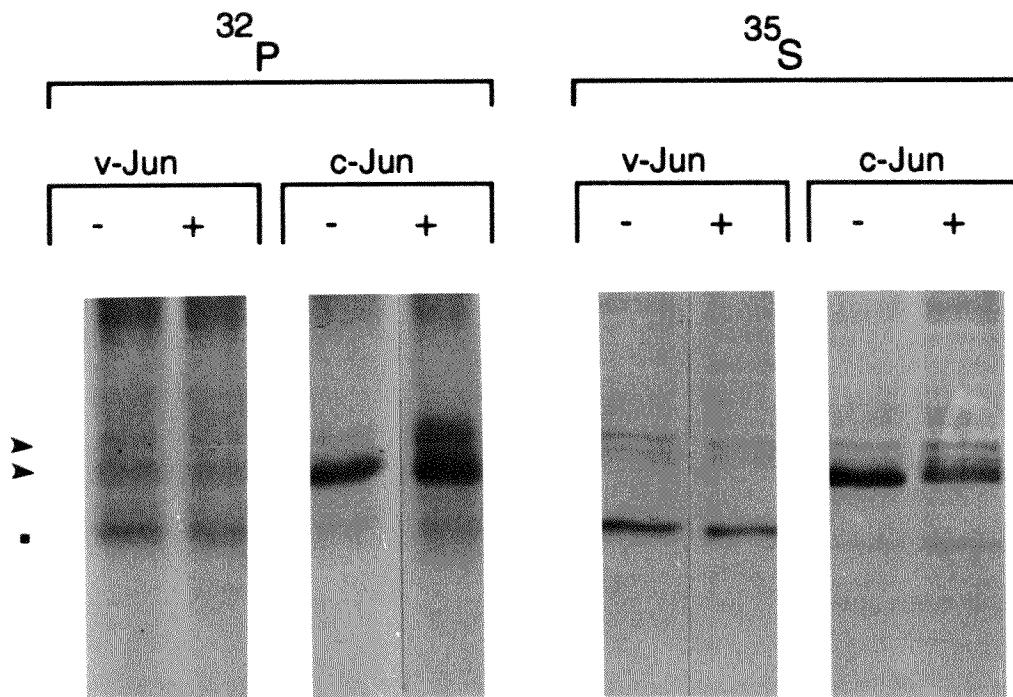


FIG. 9B

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS SUBCLASS
-----------------------------	--------------------------------

GAATTCCGGG GCGGCCAAGA CCCGGCCG GCGGCCACT GCAGGGTCCG CACTGATCCG 60
 CTCCGGGA GAGCCGCTGC TCTGGAACT CAGTTCGCCT GCGGACTCCG AGGAACCGCT 120
 GCGCACGAAG AGCCGTCACT GAGTGACCCG GACTTTCAA AGCCGGTAG GGGGGCCGAG 180
 TCGACAAAGTA AGAGTGGGG AGGCATCTTA ATTAACCCCTG CGCTCCCTGG AGCAGCTGGT 240
 GAGGAGGGCG CACGGGACG ACAGCCAGCG GGTGGCTCCG CTCTTAGAGA AACTTCCCT 300
 GTCAAAAGGCT CCGGGGGCG CGGGTGTCCC CGGCTTCCA CAGCCCTGTT GGGCCCCGA 360
 AACTTGTGCG CGCACGCCAA ACTAACCTCA CGTGAAGTGA CGGACTGTTC T ATG ACT 417
 Met Thr 1

GCA AAG ATG GAA ACG ACC TTC TAT GAC GAT GCC CTC AAC GCC TCG TTC 465
 Ala Lys Met Glu Thr Thr Phe Tyr Asp Asp Ala Leu Asn Ala Ser Phe 5
 10 15

CTC CCC TCC GAG AGG GGA CCT TAT GGC TAC AGT AAC CCC AAG ATC CTG 513
 Leu Pro Ser Glu Arg Gly Pro Tyr Gly Tyr Ser Asn Pro Lys Ile Leu 20
 25 30

AAA CAG AGC ATG ACC CTG AAC CTG GCC GAC CCA GTC GGC AGC CTG AAG 561
 Lys Gln Ser Met Thr Leu Asn Leu Ala Asp Pro Val Gly Ser Leu Lys 35
 40 45 50

FIG. IOA

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

CCG	CAC	CTC	CGC	AAG	AAC	TCG	GAC	CTC	CTC	ACC	TCG	CCC	GAC	GTG	609	
Pro	His	Leu	Arg	Ala	Lys	Asn	Ser	Asp	Leu	Leu	Thr	Ser	Pro	Asp	Val	
															55	
GGG	CTG	CTC	AAG	CTG	GGC	TCG	CCC	GAG	CTG	GAG	GGC	CTG	ATA	ATC	CAG	657
Gly	Leu	Leu	Lys	Leu	Ala	Ser	Pro	Glu	Leu	Glu	Arg	Leu	Ile	Ile	Gln	
															70	
TCC	AGC	AAC	GGG	CAC	ATC	ACC	ACC	ACG	CCG	ACC	CCC	ACC	CAG	TTC	CTG	705
Ser	Ser	Asn	Gly	His	Ile	Thr	Ile	Thr	Thr	Pro	Thr	Pro	Thr	Gln	Phe	Leu
															85	
TGC	CCC	AAG	AAC	GTG	ACA	GAT	GAG	CAG	GAG	GGG	TTC	GCC	GAG	GGC	TTC	753
Cys	Pro	Lys	Asn	Val	Val	Thr	Asp	Glu	Gln	Glu	Gly	Phe	Ala	Glu	Gly	Phe
															100	
CTG	CGC	CCC	CTG	GAA	CTG	CAC	AGC	CAG	AAC	ACG	CTG	CCC	AGC	GTC	801	
Val	Arg	Ala	Leu	Ala	Glu	Leu	His	Ser	Gln	Asn	Thr	Leu	Pro	Ser	Val	
															115	
ACG	TCC	GGG	CAG	CCG	CTC	AAC	CGG	GCA	GGC	ATG	GTG	GCT	CCC	GGC	849	
Thr	Ser	Ala	Ala	Gln	Pro	Val	Asn	Gly	Ala	Gly	Met	Val	Ala	Pro	Ala	
															135	
GTA	CCC	TCG	GTG	GCA	GGC	GGC	AGC	GGC	GGC	TTC	AGC	GGC	AGC	GGC	897	
Val	Ala	Ser	Val	Ala	Gly	Gly	Ser	Gly	Ser	Gly	Phe	Ser	Ala	Ser		
															150	
															160	

FIG. IOB

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

CTG	CAC	AGC	GAG	CCG	GTC	TAC	GCA	AAC	CTC	AGC	AAC	TTC	AAC	CCA	945	
Leu	His	Ser	Glu	Pro	Pro	Val	Tyr	Ala	Asn	Leu	Ser	Asn	Phe	Asn	Pro	
165																
GGC	GGG	CTG	AGC	GGC	GGG	GGG	CCC	TCC	TAC	GGC	GGC	GGC	GGC	GGC	993	
Gly	Gly	Ala	Leu	Ser	Ser	Gly	Gly	Gly	Ala	Pro	Ser	Tyr	Gly	Ala	Gly	
180																
CTG	GCC	TTT	CCC	GCG	CAA	CCC	CAG	CAG	CAG	CAG	CCG	CCG	CAC	CAC	1041	
Leu	Ala	Phe	Pro	Ala	Gln	Pro	Gln	Gln	Gln	Gln	Pro	Pro	His	His		
195																
CTG	CCC	CAC	CAG	ATG	CCC	GTG	CAG	CAC	CCG	CTG	CAG	CCC	CTG	AAG	1089	
Leu	Pro	Gln	Gln	Met	Pro	Val	Gln	His	Pro	Arg	Leu	Gln	Ala	Leu		
GAG	GAG	CCT	CAG	ATA	GTG	CCC	GAG	ATG	CCC	GGC	GAG	ACA	CCG	CCC	CTG	1137
Glu	Glu	Pro	Gln	Ile	Val	Pro	Glu	Met	Pro	Gly	Glu	Thr	Pro	Pro	Leu	
TCC	CCC	ATC	GAC	ATG	GAG	TCC	CAG	GAG	CCC	ATC	AAG	GGC	GAG	AAG	1185	
Ser	Pro	Ile	Asp	Met	Glu	Ser	Gln	Glu	Arg	Ile	Lys	Ala	Glu	Arg	Lys	
CGC	ATG	AGG	AAC	CGC	ATC	GCT	GCC	TCG	AAG	TGC	CGA	AAA	ACG	AAG	1233	
Arg	Met	Arg	Asn	Arg	Ile	Ala	Ala	Ala	Ser	Lys	Cys	Arg	Lys	Arg	Leu	
260																

FIG. IOC

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

GAG	AGA	ATC	GCC	CGG	CTG	GAG	GAA	AAA	GTG	AAA	ACC	TTG	AAA	GCT	CAG	1281
Glu	Arg	Ile	Ala	Arg	Leu	Glu	Glu	Lys	Val	Lys	Thr	Leu	Lys	Ala	Gln	280
275																290
AAC	TCG	GAC	CTG	GCG	TCG	ACG	GCC	AAC	ATG	CTC	AGG	GAA	CAG	GTC	GCA	1329
Asn	Ser	Glu	Leu	Ala	Ser	Thr	Ala	Asn	Met	Leu	Arg	Glu	Gln	Val	Ala	300
															305	
CAG	CTT	AAA	CAC	AAA	GTC	ATG	AAC	CAC	GTT	AAC	AGT	GGG	TGC	CAA	CTC	1377
Gln	Leu	Lys	His	Lys	Val	Met	Asn	His	Val	Asn	Ser	Gly	Cys	Gln	Leu	
															315	
ATC	CTA	ACG	CAG	CAG	TTG	CAA	ACA	TTT	TGA	AGAGAGA	CCGT	CGGGG				1424
Ile	Leu	Thr	Gln	Gln	Leu	Gln	Leu	Gln	Thr	Phe						
															325	
CTGAGGGCA	ACGAAAGAAA	AAAATAACAC	AGGAGAGACAG	ACTTGAGAAC	TTGACAAAGTT											1484
GGGACGGAGA	GAAAAAAAGAA	GTGTCGCGAGA	ACTAAAGCCA	AGGGTATCCA	AGTTGGACTG											1544
GGTCCGGTCT	GACGGGGCCC	CCAGTGTGCA	CGAGTGGAA	CCACCTGGTC	GCGCCCTCCC											1604
TTGGCGTCA	GCCAGGGAGC	GGCCGGCTGG	GGGCTCCCC	GCTTGGGA	GGGGCTGTCC											1664
CCGGCGGAAC	GGAACCGTTGG	ACTTTCGTTA	ACATTGACCA	AGAACTGGCAT	GGACCTAACAA											1724

FIG. IOD

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

TTCGATCTCA TTCAGTATTAA AAGGGGGCAG GGGGAGGGGG TTACAAACTG CAATAGAGAC 1784
 TGTAGATTGC TTCTGTAGTA CTCCCTTAAGCA ACACAAAGCG GGGGGAGGGT TGGGGAGGGG 1844
 CGGCAGGAGG GAGGTGTTGTC AGAGCGAGGC TGAGGCCTACAC GATGAACTCT TTCTGGCCTG 1904
 CTTTCGTTAA CTGCTGTATGT ACATATATAT ATTTTTTAAAT TTGATTAAAG CTGATTAACTG 1964
 TCAATAAACCA GCTTCATGCC TTTGTAACTT ATTTCCTGTGTT TGTGTTGTTG GGATCCTGCC 2024
 CAGTGTGTT TGTAAATAAG AGATTGGAG CACTCTGAGT TTACCATTTG TAATAAAGTA 2084
 TATAATTTTT TT 2096

FIG. 10E

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

T	-	+	-	-	+	+	+	+	+	-	-	-	-	+
A	-	-	+	-	-	-	+	+	+	-	-	+	+	-
CSA	-	-	-	+	+	-	+	-	-	+	-	+	-	-

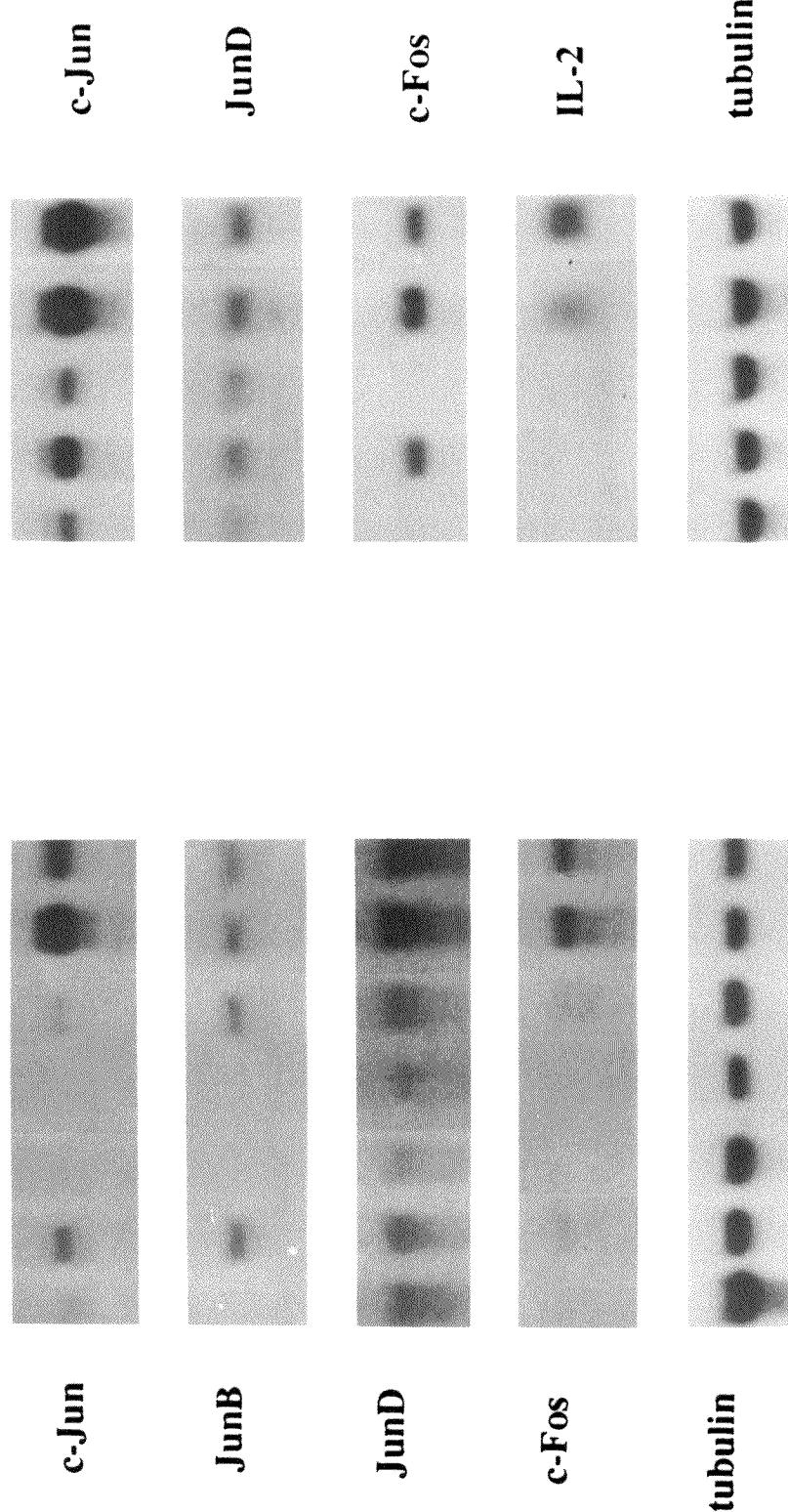
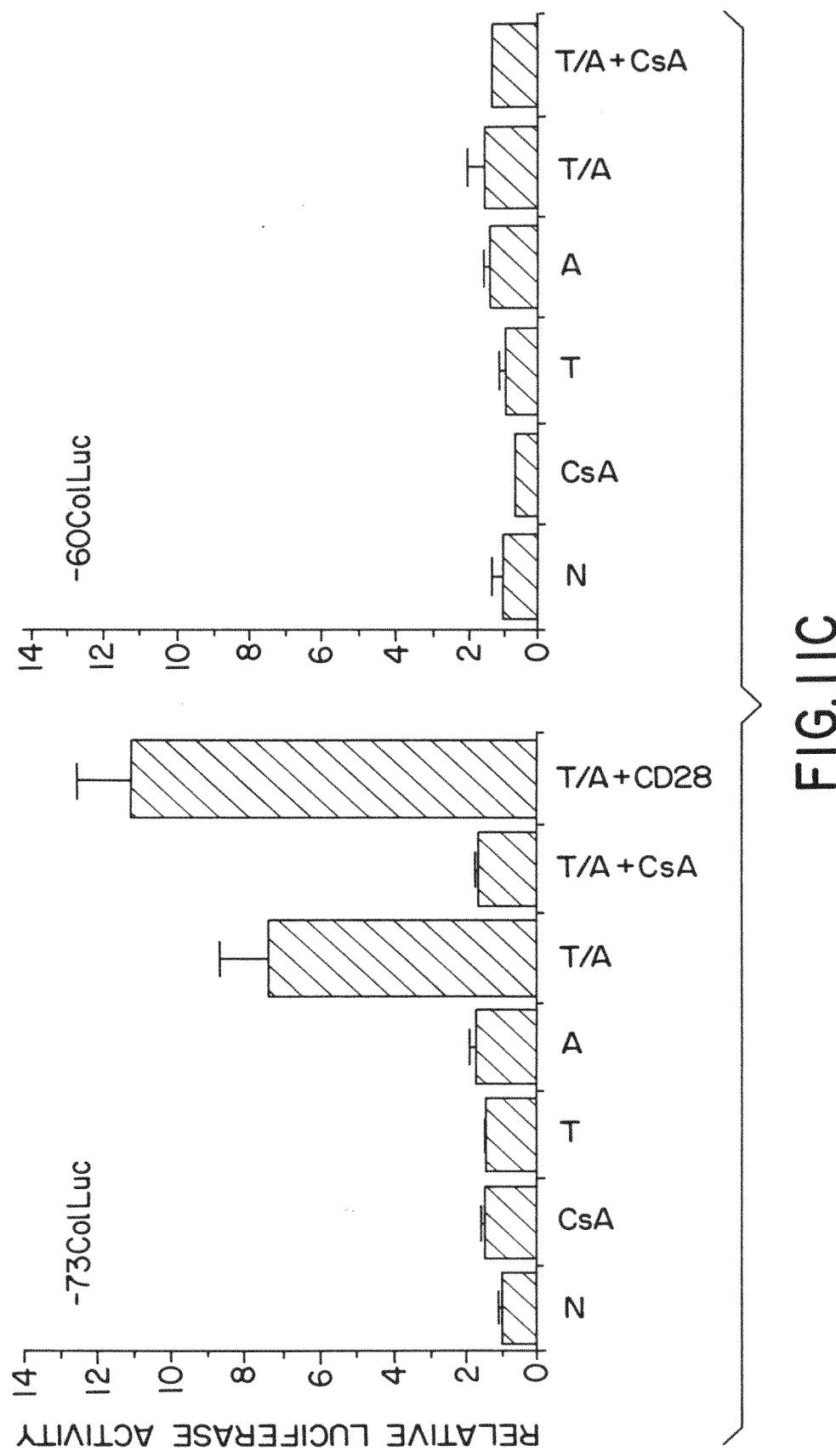


FIG. IIA

FIG. IIB

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIG. 12A

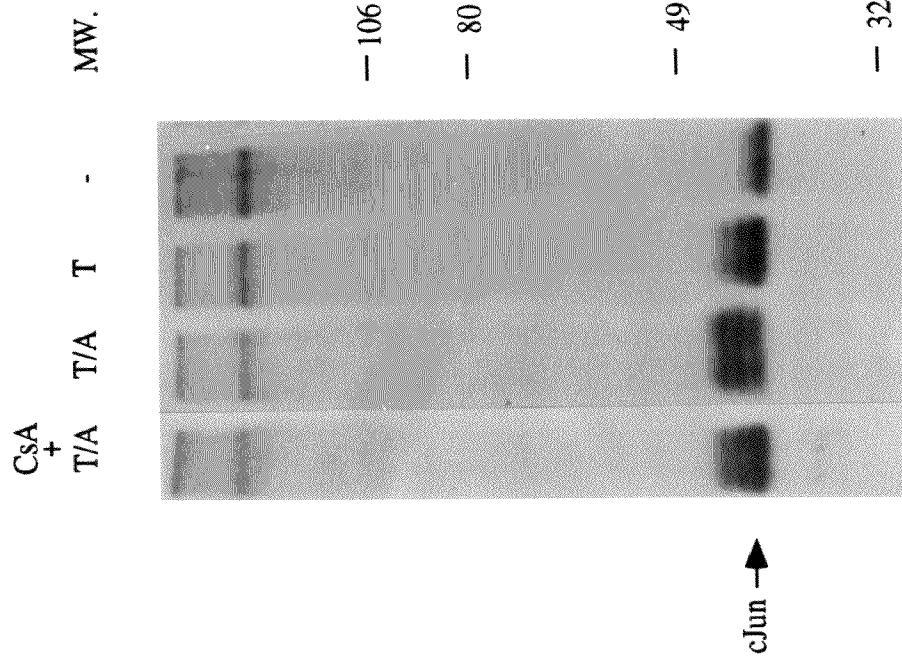
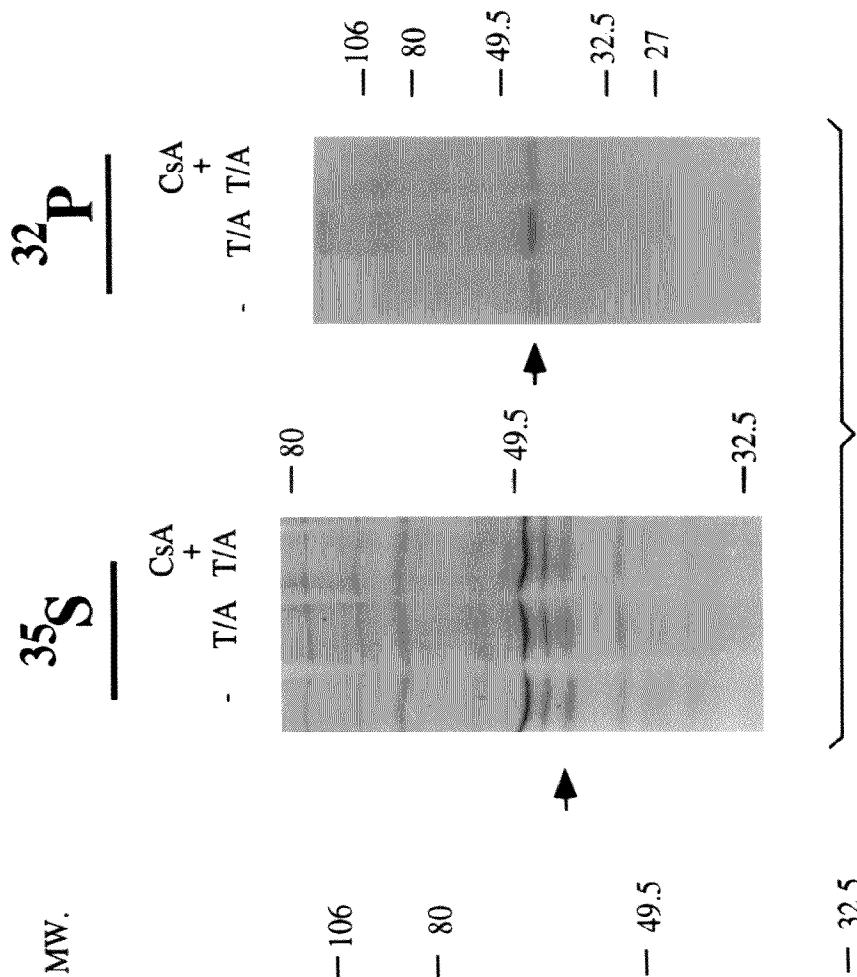


FIG. 12B



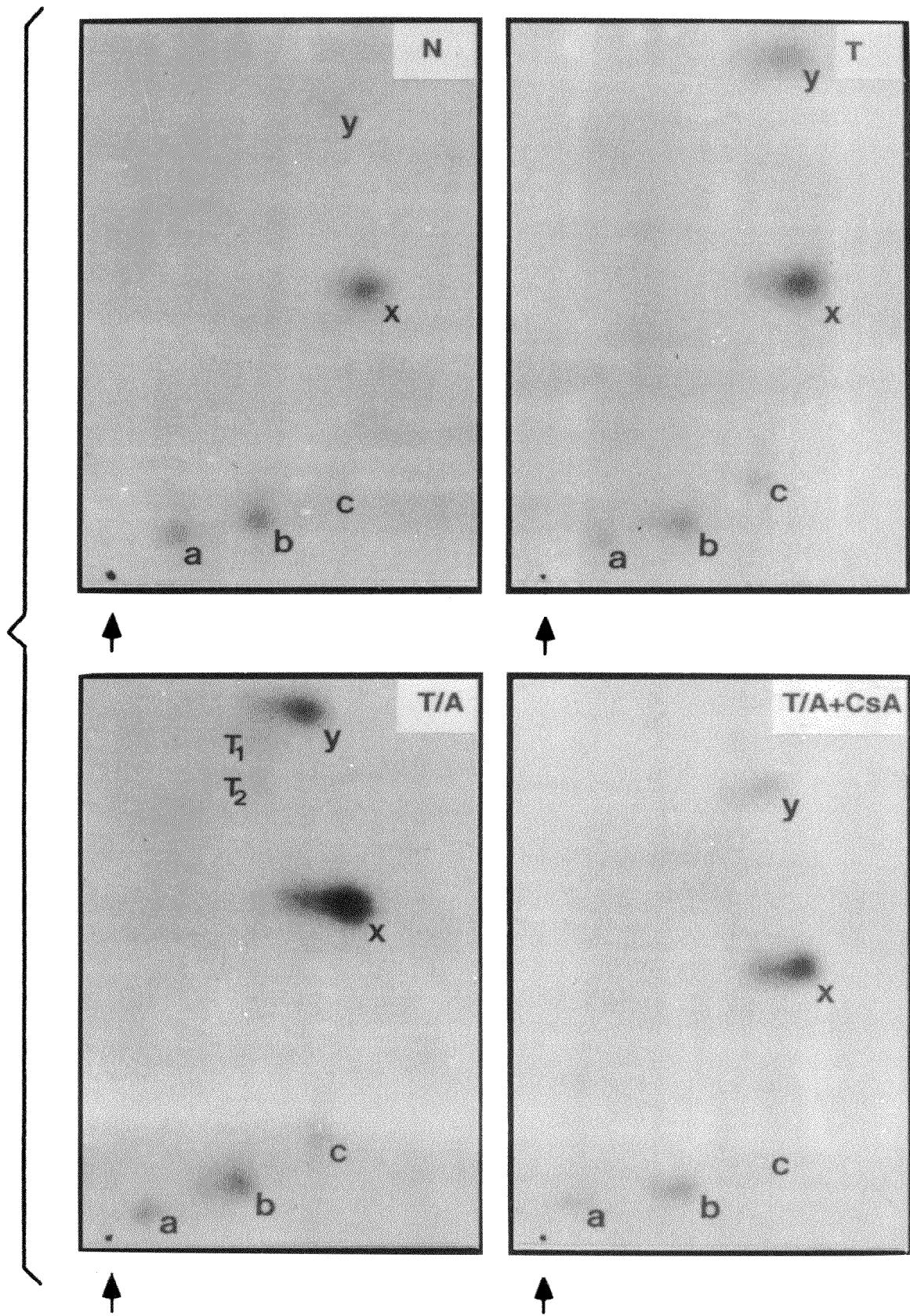


FIG. I2C

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

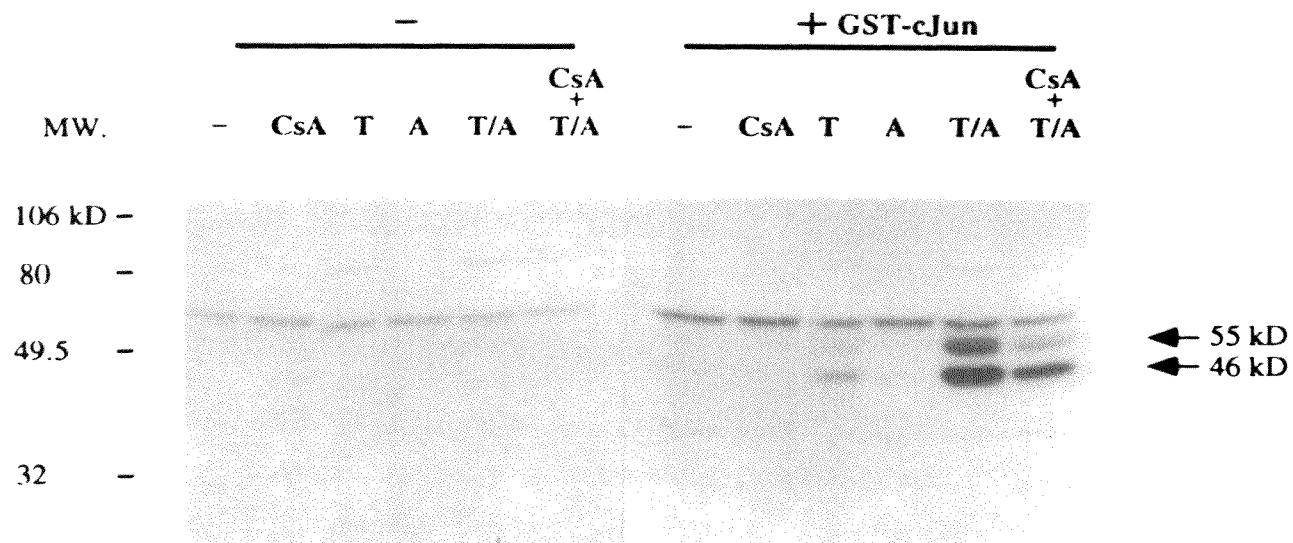


FIG.13A

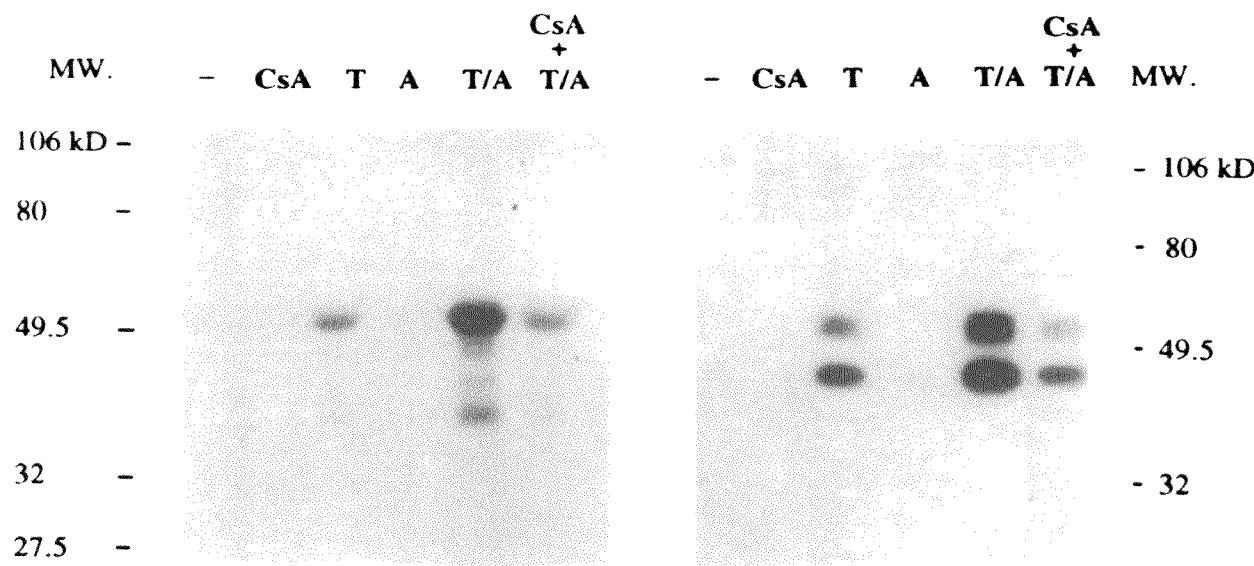


FIG.13B

FIG.13C

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

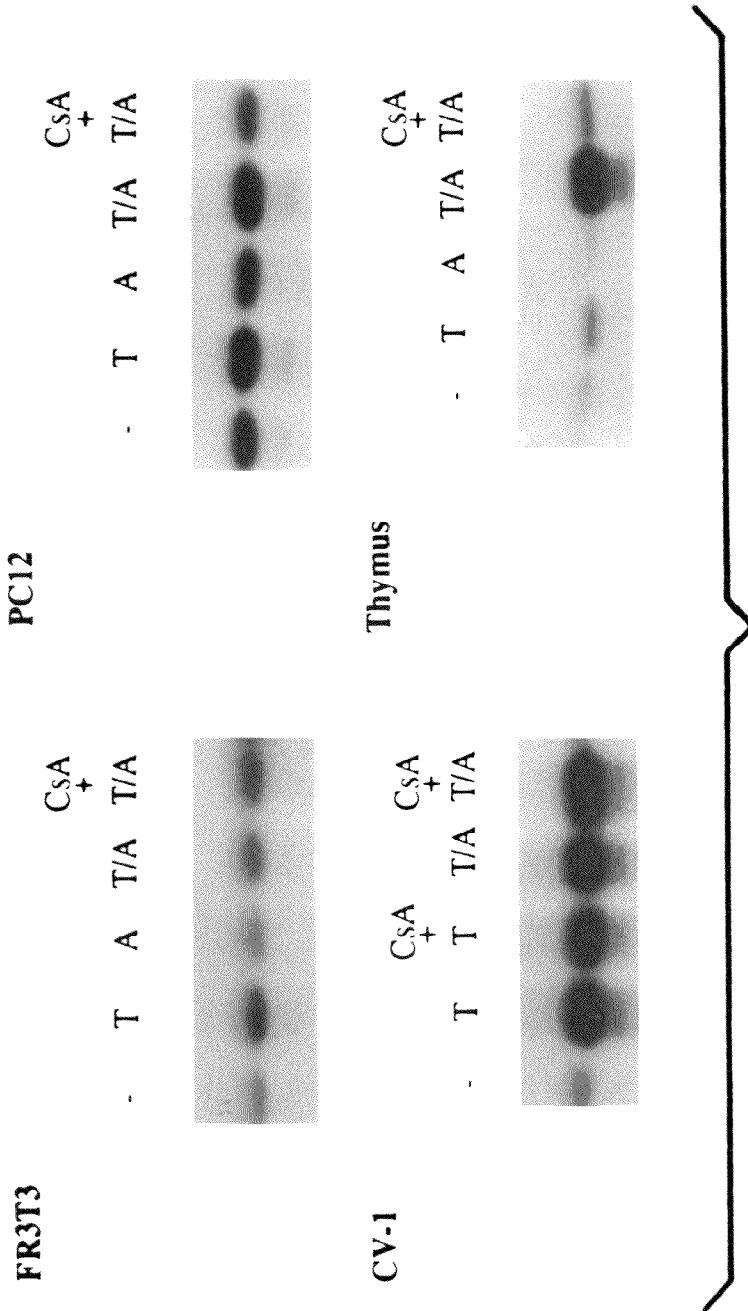


FIG.14

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

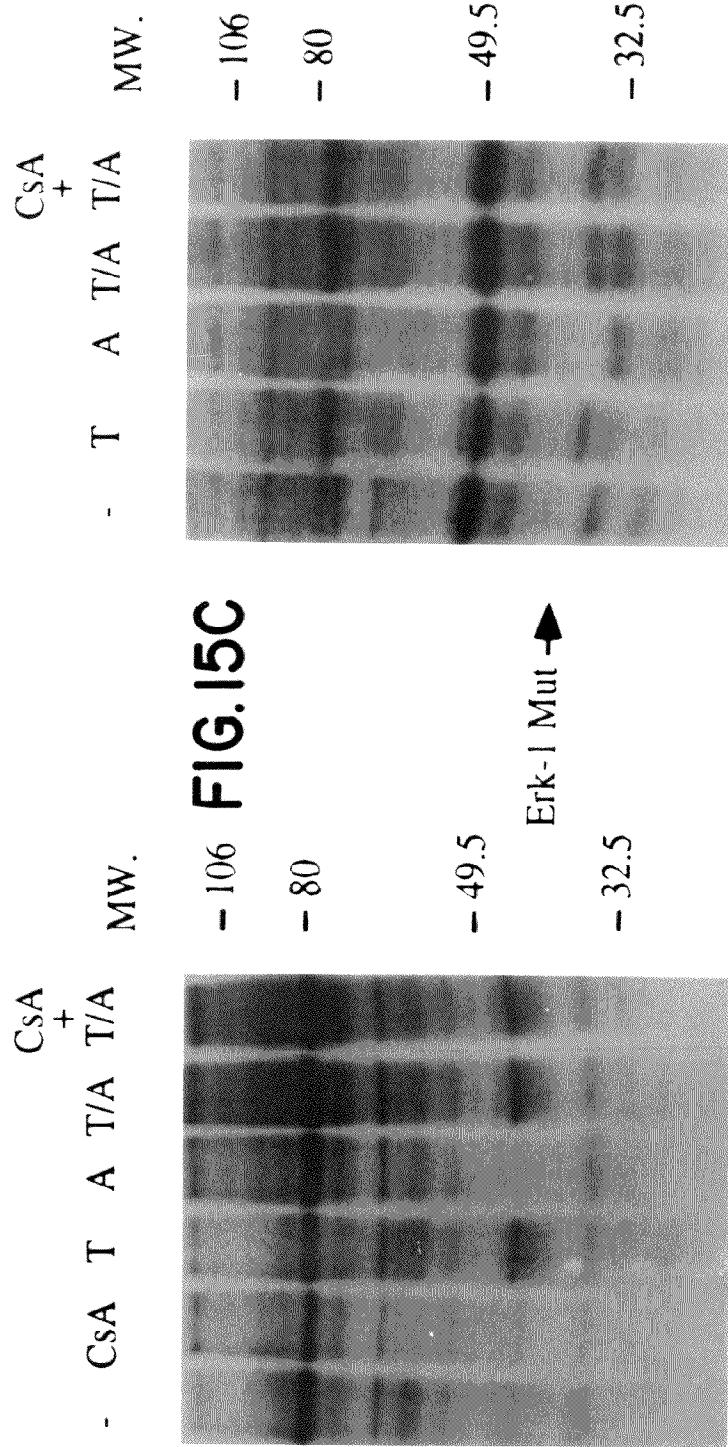


FIG. 15A

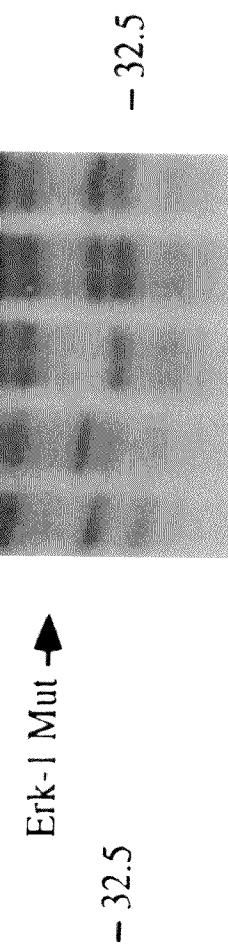
Erk-1 Mut \rightarrow



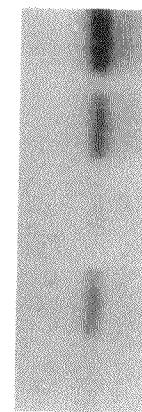
FIG. 15B

MBP \rightarrow

FIG. 15C



Erk-1 Mut \rightarrow



MBP \rightarrow

FIG.16A

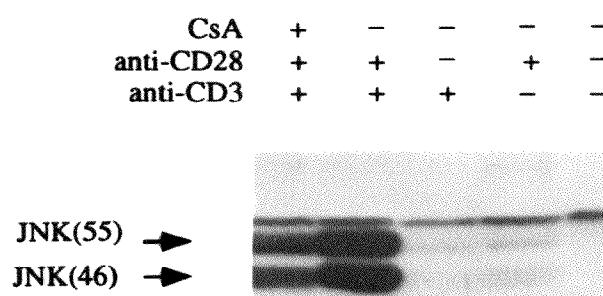


FIG.16B

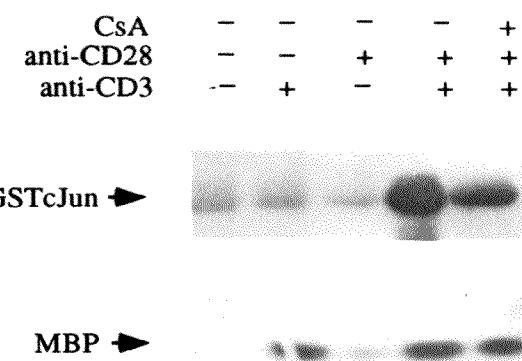
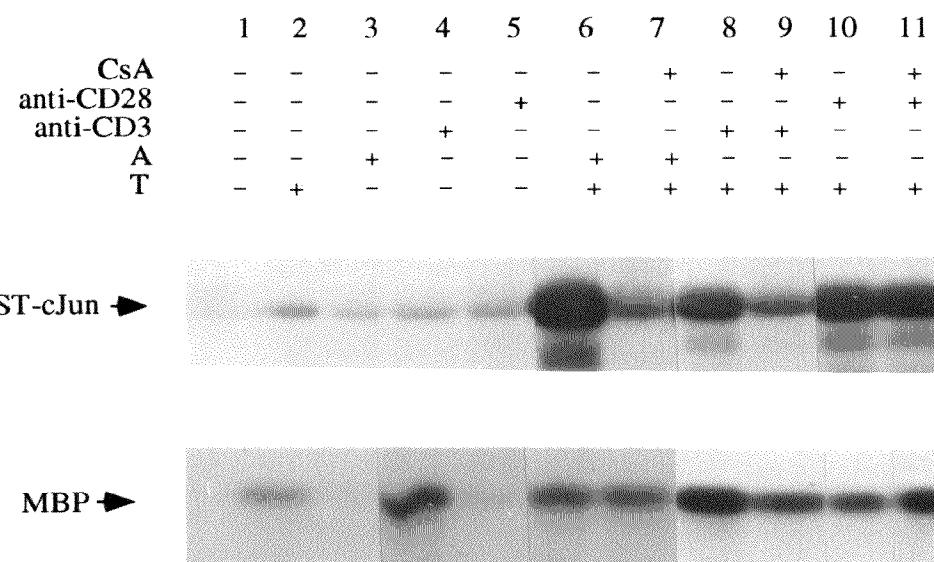


FIG.16C



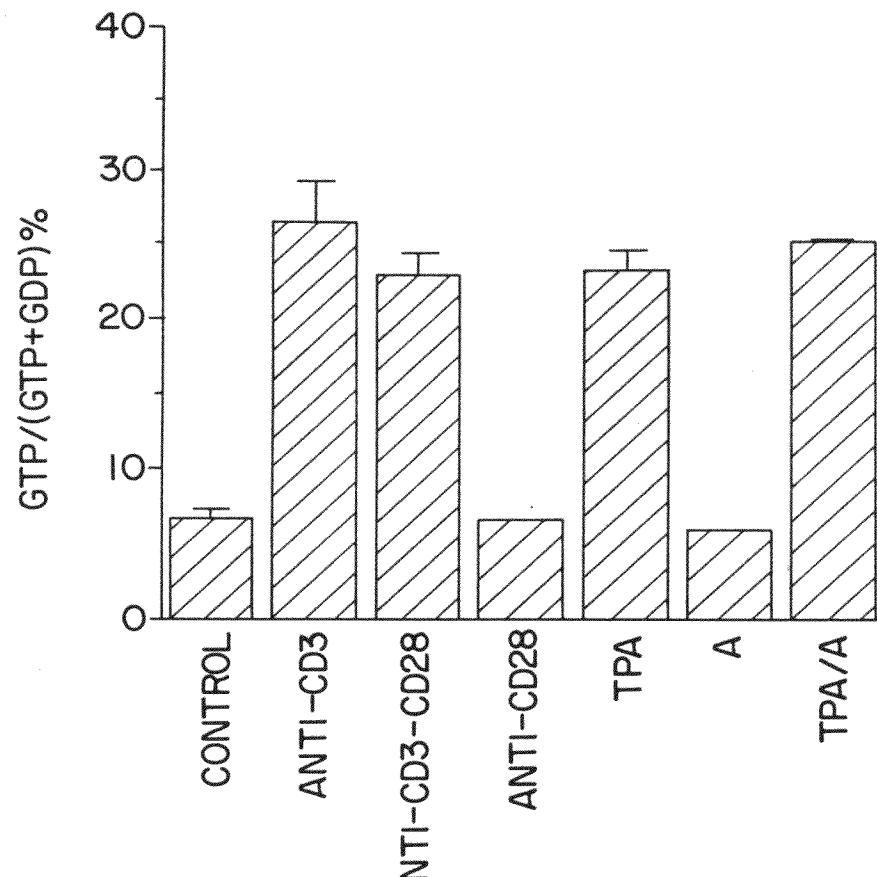


FIG. 17A

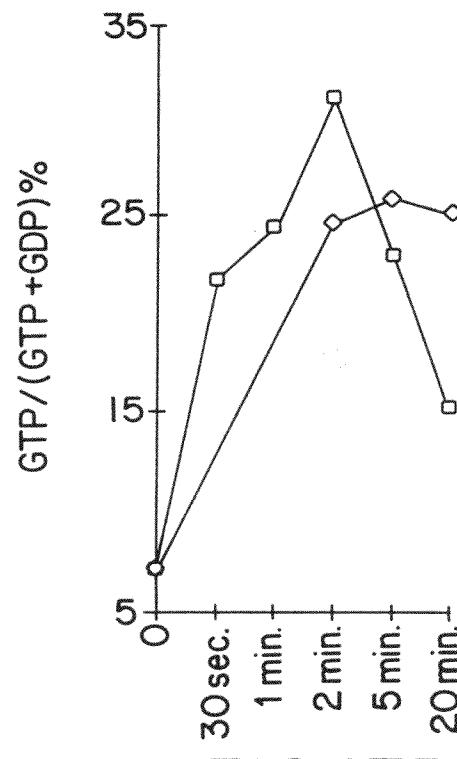


FIG. 17B